

Control of image reproducibility in a response of a stimulated echo hologram

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Abstract

© 2017 Kvantovaya Elektronika and Turpion Ltd. We consider image recording and reproduction using a reversed stimulated echo hologram, with a recording medium exposed to pulses of nonresonant electromagnetic standing waves. It is shown that the spatial intensity distribution in a stimulated echo hologram response depends on the electric field strength of nonresonant standing waves, which makes it possible to control reconstructed images.

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Keywords

Control of a reconstructed image, Information recording, Information reproduction, Reversed regime, Standing wave, Stimulated echo hologram

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